GUIDELINES FOR POSTER PRESENTATIONS

1. **All poster material must fit within a 40” wide by 80” tall space. Poster material will be fastened with hook Velcro material supplied by IFSA.**

2. **Every poster presenter should make a 3” to 6” tall by 40” wide header containing presentation title and author list in large letters.**

3. **Presenters must post their presentation at least 5 minutes before start of session (room will be available 30 minutes before start). They must remove material within 30 minutes after the session.**

4. **Presenters must stand by their material to answer questions at least one hour total during their poster session. Being at your poster during times when no parallel orals are in session is mandatory.**

Poster Session A Portola Rm
Tuesday September 9, 2003 10:50AM – 12:10 PM
(Room open from 10:15 – 12:45)
Topics: Fast Ignition & High Intensity Laser Matter Interaction; High Power Laser & Ignition Facilities; Target Fabrication

Sched #	Name	Title
TuPo1.1	Yasuyuki Nakao	Kinetic Transport Model for Core Plasma Heating by Relativistic Electrons
TuPo1.2	Alexander Andreev	Emittance of a fast ion jet generated by an intense ultra-short laser pulse on an inhomogeneous plasma foil target
TuPo1.3	A. Kemp	Laser-Driven Electron Transport in Dense Matter: A Numerical Study
TuPo1.5	Arvinder Sandhu	Evidence of Fast Electron Inhibition via Magnetic Pulse Measurements
TuPo1.6	Claude Deutsch	Strong LangmuirTurbulence for Fast Ignition in ICF
TuPo1.7	Chuang Ren	High Plasma Density PIC Simulation for Fast Ignition
TuPo1.8	Dale Welch	Hybrid simulation of intense electron beam propagation in solid density aluminum
TuPo1.9	Erik Lefebvre	Proton generation with high-intensity lasers: simulations, experiments, & applications to radio-isotope production
TuPo1.10	Eiichi Takahashi	High intensity KrF laser plasma interaction at 10^19W/cm2
TuPo1.11	Francois Amiranoff	Fast electron generation & transport in laser irradiated targets at relativistic intensities
TuPo1.12	Farhat Beg	Laser generated Z-pinch
TuPo1.13	Frederick Osman	Laser Plasma Interaction for Application to Fusion Energy
TuPo1.14	George Miley	Volume Ignition by a Plasma Block Ignition;
TuPo1.15	Hui Chen	Hot electron measurement for short-pulse laser plasma interactions
TuPo1.16	Heinrich Hora	Genuine Two-Fluid Computations of PW-ps Laser Interaction with Plasma for the Block Ignitor
TuPo1.17	Hye-Sook Park	High Energy K-Alpha X-Ray Source Generation by Short Pulse High Intensity Lasers
TuPo1.18	Hitoshi Sakagami	Collective PIC Simulations on Interaction between Ultrahigh Intense Laser & Realistic Plasma for Fast Ignition
TuPo1.19	Hiroyuki Shiraga	10-ps X-Ray Imaging of Cone-Shell Target Implosion at OMEGA laser
TuPo1.20	Jean-Claude Adam	Dispersion & Transport of energetic particles created during the interaction of intense laser pulses with overdene plasma
TuPo1.21	Jan Badziak	Production of intense Fast Ion Fluxes by Skin-layer Picosecond Laser-Plasma
TuPo1.22	Takashi Nakamura	High-Energy Protons & Magnetic Field in a Slab Plasma Illuminated by an Intense Short Pulse Laser
TuPo1.23	Xiaomin Zhang	The Development of SG99 Beam Propagation Code and Its Applications
TuPo1.24	K.X. Zheng	research on medium-aperture PEPC & application
TuPo1.25	A Erlandson	Design of a 20 TW / 20 J chirped-pulse amplification laser for high-energy-density plasma physics experiments
TuPo1.26	Benoit Wattellier	Advanced Compressor Designs for High Energy Petawatt pulses generation
TuPo1.27	Christophe Debonnel	Revisited TSUNAMI simulations for the NIF mini-chamber

Sched #	Name	Title
TuPo1.28	David Eder	Simulation of Shrapnel to Aid in the Design of NIF/LMJ Target-Diagnostic Configurations
TuPo1.29	Deanna Pennington	Conceptual Systems Design for NIF High-Energy Petawatt Capability
TuPo1.30	Florian Bonneau	A global model to investigate the LMJ or NIF debris shield lifetime
TuPo1.31	Frank Hegeler	Efficient Electron Beam Pumping of Repetitively Pulsed, High Energy Krypton Fluoride Lasers
TuPo1.32	François Jequier	LIL Operation for 3w commissioning
TuPo1.33	Abbas Nikroo	Development & Fabrication of Fast Ignition Targets
TuPo1.34	Arthur Nobile	Development of Beryllium-Copper Alloy Ignition Capsules
TuPo1.35	Ravindra Khardekar	Review of Inertial Fusion Target Activity in India
TuPo1.36	Stephan Letts	The Kinetics of Oxygen Pick-up by Plasma Polymer
TuPo1.37	Bernard Kozioziemski	Infrared formed & controlled fuel layers inside of hohlraums
TuPo1.38	B. McQuillan	Hydrodynamic Issues in PAMS Mandrel Target Fabrication
TuPo1.39	Brian Vermillion	Microencapsulation Studies for Mass Production of IFE Targets
TuPo1.40	Donald Bittner	Parametric Study of Infrared Layering
TuPo1.41	Elena Koresheva	Formation of a thermostable glassy fuel layer using the minor dope technique
TuPo1.42	Forbes Powell	Solution-Based Methods for the Production of Inertial Fusion Spherical Target Capsules
TuPo1.43	Guennadiy Baranov	Multi-functional target-positioning device for rapid tomographic data acquisition
TuPo1.44	Haibo Huang	Fluidized Bed GDP Coating Experiment for IFE Target Fabrication
TuPo1.45	Hiroki Yoshida	Pellet Tracking & Rotational Freezing for Laser-Fusion
TuPo1.46	Irina Aleksandrova	Reconstruction algorithms for tomographic multiaspect shadowgraphing for application to ICF/IFE targets characterization
TuPo1.47	Igor Osipov	A 100-projections microtomograph for cryogenic targets characterization
TuPo1.48	John Moody	Experimental Studies of Convection Effects in a Cryogenic NIF Ignition Target
TuPo1.49	Jorge Sanchez	Modeling the Effects of IR Heating on the Fuel Layer Symetry in a Cryogenic NIF Ignition Target
TuPo1.50	James Sater	Experiments on Filling & Layering Capsules in Hohlraums
TuPo1.51	Vladimir Chtcherbakov	Progress in the development of an integrated FST-layering code for the optimization of fuel ice formation in moving ICF/IFE capsules
TuPo1.52	Warren Steckle, Jr.	Evaluation of Low Density Materials for use in Inertial Fusion
TuPo1.53	Tom Walsh	New HED Target Development
TuPo1.54	Mitchell Anthamatten	Vapor Smoothing – A new Approach to Surface Modification
TuPo1.55	Masaru Takagi	Recent Progress in NIF Mandrel Production
TuPo1.56	Peter Ebey	Cryogenic Inertial Fusion Target Filling & Layering Research using the LANL Cryogenic Pressure Loader
TuPo1.57	Robert Cook	IR Transmission properties of Plastic Materials Used in ICF capsules

Poster Session B - Portola Rm
Tuesday September 9, 2003 2:30 PM to 4:10 PM
(Room open 2PM to 5PM)
Topics: Hot Dense Plasma Atomic Processes; ICF/Plasma Diagnostics; Implosion Hydrodynamics & Hydro-Instabilities; Radiation Hydrodynamics; Target Fabrication

Sched #	Name	Title
TuPo2.1	Dirk Gericke	Temperature Equilibration in Hot, Dense Fusion Plasmas
TuPo2.2	Emilio Minguez	Calculation of radiative properties & line transition of dense hot low Z plasmas using analytical potentials.
TuPo2.3	Jun Hasegawa	Effective charge of heavy ions interacting with a dense helium plasma
TuPo2.4	Jose Martinez-Val	Radiation leakage from degenerate plasmas in ICF targets
TuPo2.5	Robert Heeter	Characterization of Non-LTE Gold Plasmas in Controlled Conditions with Finite Tr
TuPo2.7	Toru Kawamura	Kinetics modeling of Kalpha emissions from partially ionized chlorine atoms in ultra-intensity laser plasmas
TuPo2.8	Vladimir Fortov	Stopping Power of Explosively Driven Nonideal Plasma for C2+ Ion Beam.
TuPo2.9	Vladimir Vatulin	Numerical calculations for matter at extreme conditions.
TuPo2.10	Alexander Bessarab	Results & Analysis of Direct Measurements of Neutron Yield Generation Time Delay in Indirect Drive Experiments with Controlled Asymmetry of X-Ray field
TuPo2.11	Cheng Wang	A novel spectrometer for coherence investigation of hot electrons & hot ions
TuPo2.12	Gregory Schmid	CVD Diamond Detectors for ICF Neutron Diagnostics
TuPo2.13	Leslie Welser	Spectroscopic analysis of plasma core gradients in indirect-drive ICF implosion experiments at OMEGA
TuPo2.14	Mark Gunderson	Experimental Results on the Effects of Line Merging in Spectral Line Data Analysis
TuPo2.15	Michael Moran	Neutron Scintillators for Downscattered Neutron Imaging
TuPo2.17	Abdulmuhsen Ali	Nonlinear Fluctuation Dissipation Theory to the Second Order
TuPo2.18	Akiro Hata	Generation of Magnetic Field in a Imploded High Density Plasma
TuPo2.19	Alice Koniges	Studies of Indirect Drive IFE Capsules in Two & Three Dimensions
TuPo2.20	Cindy Christensen	The Influence of Asymmetry on Mix in Direct-Drive ICF Implosions
TuPo2.21	David Munro	Shock timing techniques for ignition capsules on the NIF
TuPo2.22	Gregory Pollak	Comparison of Calculated & Measured Static & Gated Images for Recent Double Shell Implosion Experiments
TuPo2.23	Hideo Nagatomo	Numerical Analysis of Non-spherical Implosion for Fast Ignition Target Design
TuPo2.24	Harry Robey	Experimental investigation of the effect of M-b & preheating in indirectly-driven double-shell implosions
TuPo2.25	Hiroyuki Shiraga	Reduction of Reileigh-Taylor Instability in Laser-Accelerated targets
TuPo2.26	Igor Golovkin	Hydrodynamic & spectroscopic modeling of indirect-drive ICF implosions.
TuPo2.27	Jiri Limpouch	Iodine laser interactions with porous matter
TuPo2.28	Jose Milovich	Short-wavelength perturbation growth studies for NIF double-shell ignition target designs

Sched #	Name	Title
TuPo2.29	Jay Salmonson	Simulations comparing ablater materials for 1.1 scale NIF ignition capsules at 250 eV drive temperatures.
TuPo2.30	Steve Haan	Indirect Drive Ignition Target Design Update
TuPo2.31	Laurent Masse	Instability of the ablation front in ICF
TuPo2.32	Marina Olazabal-Loume	Linear stability of heat conducting & magnetohydrodynamic flows. Application to ICF problems.
TuPo2.33	Shinsuke Fujioka	Suppression of Rayleigh-Taylor Instability Using Radiative Ablation in High-Z Doped Plastic Target
TuPo2.34	Scott Wunsch	Simulations of P_4 capsule symmetry in double Z-pinch hohlraums
TuPo2.35	Thomas Nash	Measurement of Bang Radiation Temperature in Dynamic Hohlraum ICF Capsules on Z
TuPo2.36	Wen-Hua Ye	Fundamental Jet of Ablative Rayleigh-Taylor Instability Nearby the Peat Linear Growth Gate
TuPo2.37	Yohei Tamari	Two-dimensional ablation density measurement relevant to Rayleigh-Taylor instability with Fresnel Phase Zone Plate
TuPo2.38	Daniele Babonneau	Enhancement of multi-keV X-ray production by prepulsed titanium foils
TuPo2.39	Daniele Babonneau	Influence of two-electron processes on X-ray conversion from gold spheres at OMEGA
TuPo2.40	David Bradley	Symmetry Studies in Hohlraums at 100 eV
TuPo2.41	Eduard Dewald	Gas-filled hohlraum experiments at the Omega Laser
TuPo2.42	Jean Giorla	DT deformation due to random radiation asymmetry around the LMJ capsule on indirect drive
TuPo2.43	James Hammer	Analytic ICF hohlraum energetics
TuPo2.44	John Pasley	X-UV imaging of indirectly driven foam-foil packages
TuPo2.45	Marie-Christine Monteil	Design of holhraum radiative experiments on the LIL facility
TuPo2.46	Robert Turner	Measurements of Wall Stagnation in Gas-Filled ICF Hohlraums
TuPo2.47	Abbas Nikroo	Foam Shell Fabrication for Direct Drive Experiments at OMEGA
TuPo2.48	John Varadarajan	Fabrication of Foam & Film Targets for ICF
TuPo2.49	Korbie Dannenberg	Michigan Target Fabrication Facility for Laboratory Astrophysics & High Energy Density Experiments
TuPo2.50	Keiji Nagai	Single Molecular Membrane Glue Technique for Laser Driven Shock Targets
TuPo2.51	Lin Zhang	Preparation & performance of DPS films
TuPo2.52	Robin Hibbard	Precision Manufacturing of Double Shell Laser Targets
TuPo2.53	Ravindra Khardekar	A Novel Compact Mach-Zehnder Interferometer for Characterization of Micro Balloon Targets
TuPo2.54	Ravindra Khardekar	Novel Multi-layered Inertial Confinement Fusion Targets
TuPo2.55	Richard London	Computational Design of Infrared Enhanced Cryogenic Layering of ICF Capsules
TuPo2.56	Randall McEachern	Sputter-deposited Beryllium for NIF Capsule Ablators
TuPo2.57	Stephan Letts	Development of Vapor Deposited Polyimide Ablator Coatings for NIF ICF Capsules
TuPo2.58	Sakagami Yukio	Study of Non-Contact Suspension Technique of a Pellet for Laser Fusion

Poster Session C Portola Rm
Wednesday September 10, 2003 10:50AM – 12:10 PM
(Room Open 10:15 AM – 12:45 PM)
Topics: Fast Ignition and High Intensity Laser Matter Interactions; Heavy Ion Beam Drivers; Laser and Beam Plasma Interactions; Z-Pinches and Pulsed Power

Sched #	Name	Title
WPo3.1	James King	Ti K-alpha radiography of imploding Cu doped CD shells & coned shells
WPo3.2	John Kline	Observation of a Transition from Fluid to Kinetic Nonlinearities for Langmuir Waves Driven by Stimulated Raman Scattering
WPo3.3	Joseph MacFarlane	Simulation of the Rapid Ionization of Aluminum Irradiated by Intense Short-Pulse Lasers
WPo3.4	Jie Zhang	Generation & propagation of hot electrons
WPo3.5	Milos Skoric	Stimulated Scattering of Laser Light in Subcritical Plasmas
WPo3.6	Max Tabak	Models of gain curves for Fast Ignition
WPo3.7	Robert Campbell	Simulations of PetaWatt laser-generated electron beams in pre-compressed fast ignition hot-spot plasmas.
WPo3.8	Roger Evans	Rear Surface Effects on Beam Transport in CPA Irradiated Thin Targets & the Interpretation of Fast Ignition Experiments
WPo3.9	Richard Freeman	What we know versus what we speculate concerning the generatin transort of laser-generated fast electrons in dense materials.
WPo3.10	Richard Snavely	Relativistic Electron Beam Transport & Characteristics in Solid Density Plasmas
WPo3.11	Stefano Atzeni	Numerical simulation of advanced fast ignition schemes
WPo3.12	Stephen Hatchett	More Efficient Cone-Focussed Implosions for Fast Ignition
WPo3.13	Susumu Kato	Effects of Laser Wavelength on Absorption of Ultrashort Intense Lasers on Solid-Density Targets
WPo3.14	Stephen Slutz	Pulsed power driven capsule implosions for fast ignition: high performance concepts.
WPo3.15	Scott Wilks	Modeling K-alpha images produced in short-pulse laser driven electron transport experiments
WPo3.16	Tomoyuki Johzaki	2-D Analysis of Ignition & Burn Characteristics for Fast Ignition Targets
WPo3.17	Tatsufumi Nakamura	Generation of static magnetic field along solid surface irradiated by intense laser field
WPo3.18	J. Fuchs	Study of Fast Electron Transport in Conductors Using Solid Target Rear-Surface Accelerated Protons
WPo3.19	Vadim Belyaev	Electron Beams Transport and Complexity in Laser Produced magnetized Plasmas
WPo3.20	Yuqiu Gu	Hollow & filamented proton beams from the rear surface of target irradiated by fs laser
WPo3.21	Andrey Kunin	The Calorimeter for Measurement of Specific Deposited Ion Energy in Matter
WPo3.22	Alexandar Ogoyski	Heavy Ion Beam Illumination Non-uniformity
WPo3.23	Christine Celata	The Integrated Beam Experiment – A Next Step Experiment for Heavy Ion Fusion

Sched #	Name	Title
WPo3.24	Enrique Henestroza	The Heavy Ion Fusion Neutralized Transport Experiment
WPo3.25	Glen Westenskow	High Current Ion Source Development for Heavy Ion Fusion
WPo3.26	Masao Ogawa	Influence of Grid Control on Beam Emittance in Laser Ion Source Generating High-current Low-charged Copper Ions
WPo3.27	Peter Seidl	Results from the High Current Experiment for Heavy Ion Fusion
WPo3.28	Roberto PIRIZ	Analysis of the Minimum Wobbler Rotation Frequency Required to Uniformly Irradiate a Heavy Ion Driven Cylindrical Target
WPo3.29	Simon Yu	Pinched Final Transport for Heavy Ion Fusion
WPo3.30	Takashi Kikuchi	Emittance growth due to bunch compression in final buncher for HIF
WPo3.31	Alexander Bessarab	Faster-than-light emp Source Initiated by Short Pulse of Laser Plasma
WPo3.32	Alexander Cherkasov	Diffusion model of ion beam stopping in heavy ion fusion problem
WPo3.33	Alexander Golubev	Experimental investigation of ion beam stopping power in matter.
WPo3.34	Alice Koniges	A New Numerical Treatment of Hohlraum Boundaries for ALE Rad/Hydro Codes
WPo3.35	A Langdon	Long-pulse LPI at extremes of intensity & electron temperature
WPo3.36	Bedros Afeyan	Optical Mixing Controlled Stimulated Scattering Instabilities
WPo3.37	Brent Blue	Wake generation & energy transfer relating to the transport of intense relativistic particle beams in an underdense plasma
WPo3.38	Barbara Lasinski	Raman Generated Magnetic Fields in Laser Light Speckles
WPo3.39	Carmen Constantin	Multi-keV x-ray conversion efficiency measurements in laser produced plasmas
WPo3.40	Christoph Niemann	Self Thomson scattering in laser produced plasmas
WPo3.41	Davoud Dorranian	Generation of Short Pulse Radiation from Magnetized Wake in gas Jet Plasma - Laser Interaction
WPo3.42	Dustin Froula	Stimulated Brillouin Scattering from Helium-Hydrogen Plasmas
WPo3.44	Dale Welch	Simulations of ion beam neutralization in support of the Neutralized Transport Experiment
WPo3.45	Fred Hartemann	PLEIADES: a Picosecond, High Peak Brightness Compton Scattering X-Ray Source for Advanced Backlighting & Time-Resolved Material Studies
WPo3.46	Frederick Osman	Evolution of Optical Solitons resulting from Higher Order Terms in the Nonlinear Paraxial Equation for Relativistic Self-focusing of Laser Beams
WPo3.47	Frederick Osman	Programming of the Generalised Nonlinear Paraxial Equation for the Formation of Solitons with Mathematica
WPo3.48	Gilles Riazuelo	Comparison of Different Smoothing Techniques in the LIL/LMJ Context
WPo3.49	Stefan Weber	Nonlinear hydrodynamic simulations of laser-plasma interaction for mono- & multi-speckle configurations

Sched #	Name	Title
WPo3.50	Tina Back	X-ray Sources & High Energy Density Physics on NIF
WPo3.51	Daniel Klir	XUV & Soft X-ray Emission from the Fast Z-Pinch Discharge
WPo3.52	Daniel Sinars	Monochromatic x-ray backlighting of experiments on the Sandia Z-machine
WPo3.53	Edmund Yu	Wire core dynamics in the (r,theta) plane
WPo3.54	Georgy Oleinik	Lagging mass at Current Compression of Liners on Angara 5-1 Facility
WPo3.55	José González	A Pinch Compression Model of Neutron Production in a Plasma Focus
WPo3.56	JOZEF KRAVARIK	X-ray & neutron diagnostics in experiment with fiber in MA Plasma focus discharge.
WPo3.57	Trevor Burris-Mog	Line Shape Analysis of K-shell X-ray Spectra from Ar-doped Implosion Cores at Z
WPo3.58	T Sanford	Progress in characterizing & interpreting axial radiation exiting a Dynamic-Hohlraum high-temperature x-ray source

Poster Session D – Portola Room
Wednesday, September 10, 2003 2:30 PM to 4:10 PM
(Room open 2PM – 5PM)
Topics: IFE Reactor; Laboratory Astrophysics; Laser Acceleration; High Power Laser and Ignition Facilities; Short Pulse Laser; X-Ray Laser

Sched #	Name	Title
WPo4.1	Askar Konkachbaev	Study of the hydrodynamics of vortex tubes for use as beamline protection elements in heavy ion inertial fusion reactors
WPo4.2	Arturo Rodriguez	Activation Cross Sections Improvements Needed for IFE Power Reactors Designs
WPo4.3	Christophe Debonnel	Evaporation, Venting, & Condensation for the HIF Robust Point Design
WPo4.4	Jeff Latkowski	Rep-Rated X-Ray Damage & Ablation Experiments for IFE & ICF Applications
WPo4.5	Masakatsu Murakami	Optimizing Rotation of Injected IFE Pellet by Utilizing Precession
WPo4.6	Marta Velarde	The Role of Organically Bound Tritium After Ingestion Processes in Normal and Accidental Scenarios from Releases in Inertial Fusion Reactors
WPo4.7	Takayoshi Norimatsu	Experimental Simulation on Protection of the Final Optics from Metal Vapor in a Wet-wall Laser Fusion Reactor
WPo4.8	William Hogan	Technology Issues & Benefits of a Fast Ignition Power Plant with Cone Targets
WPo4.9	Zoran Dragojlovic	Simulation of IFE Chamber Dynamic Response by a Second Order Godunov Method With Adaptive Mesh Refinement and Arbitrary Geometry
WPo4.10	Amy Reighard	Collapsing Radiative Shocks in Xenon Gas on the Omega Laser
WPo4.11	Claire Michaut	Microscopic aspects in radiative shock front structures
WPo4.12	Claire Michaut	Radiative shock experimental study
WPo4.13	David Farley	Numerical simulation of a laser-produced blast wave using the FLASH code
WPo4.14	Freddy Hansen	Laboratory simulations of supernova shockwave propagation & ISM interaction
WPo4.15	Jave Kane	A short-wavelength hydrodynamic instability of an ionization front
WPo4.16	Ladislav Drska	Laboratory Nuclear Astrophysics: A Chance for ICF Research?
WPo4.17	Nadja Vogel	Generation of supersonic plasma jets & accelerated plasma fragments in laser-produced plasmas
WPo4.18	Serge Bouquet	Radiative Shocks in Low Pressure Gases
WPo4.19	Sergey Lebedev	Interaction of Radiatively Cooled Supersonic Plasma Jets with Plasma Clouds
WPo4.20	Xavier Ribeyre	The role of compressibility on the Rayleigh-Taylor instabilities in the astrophysical frame
WPo4.21	Yuri Zakharov	Laboratory Simulation of the Dynamics & Instabilities of Space Plasma Clouds Exploding in Magnetized Background
WPo4.22	Arie Zigler	An optical electron injector produced by the interaction of a high intensity femtosecond laser pulse with a solid wire
WPo4.23	Frank Tsung	Laser Wakefield Acceleration in the Peta-Watt Regime

Sched #	Name	Title
WPo4.24	Shuji Miyazaki	Electron Bunch Acceleration by an Intense Short Pulse Laser
WPo4.25	Thomas Cowan	High energy-density laser-accelerated ion beams for HIF research
WPo4.26	Tatsufumi Nakamura	Electron acceleration by intense laser field with static magnetic field
WPo4.27	Takashi Nakamura	Maxwell-Vlasov Simulation for Laser Electron Acceleration
WPo4.28	Vladimir Lykov	The enhancement of positron acceleration efficiency at the rear surface of target irradiated by intensive short laser pulse.
WPo4.29	Benoit Wattellier	Design & Test of Advanced Multi-Layer Dielectric Gratings for High Energy Petawatt
WPo4.30	Jay Dawson	All Fiber Technology for High-Energy Petawatt Front End Laser Systems
WPo4.31	John Giuliani	Orestes Kinetics Model for Electron Beam Pumped KrF Lasers
WPo4.32	Marc Geitzholz	Review on Target Area: Design & Processes
WPo4.33	Chi Ma	Frequency Converter Development For the SG-III Laser Facility
WPo4.34	Matthew Myers	Improved Performance of Large-Area Cathodes for Repetitively Pulsed KrF Lasers
WPo4.35	Michael Tobin	Characterizing Shrapnel & Debris Produced in High Power Laser Experiments
WPo4.36	Matt Wolford	Electra as an Oscillator: A Repetitively Pulsed, 500 J, 100 ns, KrF laser
WPo4.37	Nathalie Blanchot	Technical issues in the multi-PETAWATT LASER facility Project on the Ligne d'Intégration Laser (LIL)
WPo4.38	Osamu Matsumoto	Analysis on Surface Damage Thresholds of a Diode-pumped Nd:Glass Zig-zag Slab Laser Amplifier
WPo4.39	Rysvan MALECK	LIL/LMJ Alignment principles. Experiemental performances on high energy shot.
WPo4.40	Wenkai Wu	Design, Dynamic Modeling & Performance of Kinematic Mounts for large Aperture Mirrors in ICF Facility
WPo4.41	Xinglong Xie	Temporal & Spatial Chirp Effects on Contrast Ratio of Ultra short High Power Laser Pulses
WPo4.42	Feng JING	Experimental results of a new type 4-pass amplification system
WPo4.43	Hansheng Peng	200-TW Ti:sapphire Laser System at CAEP
WPo4.44	Igor Jovanovic	Parametric techniques for extreme-contrast,high-energy petawatt pulses
WPo4.45	Les Jones II (for Britten)	Enabling Technology for Fabrication of Meter-scale Gratings for High Energy Petawatt Lasers
WPo4.46	Alain BOSCHERON	ALISE laser facility of CEA-CESTA : 200 J of monchromatic or smoothed beam, towards UHI femtosecond regime (100 TW)
WPo4.47	Benoit Wattellier	Diffraction limited focal spots for off-thermal equilibrium 100-TW Nd:Glass laser chain using a dielectric coated deformable mirror
WPo4.48	Daniel Clark	Raman Laser Amplification in Preformed & Ionizing Plasmas
WPo4.49	Huang Xiaojun	Propagation of the Super-Gaussian Beam in Ti:Sapphire CPA System

Sched #	Name	Title
WPo4.50	Heyuan Zhu	All-optical techniques for pulse shaping & synchronization based on a Ti:sapphire laser
WPo4.51	Jon Larsen	The high intensity laser interaction with near-free electron metals
WPo4.52	Mikhail Pergament	Femtosecond Lasers & Chirped Pulse Phase Conjugation in Nonlinear Crystals
WPo4.53	Vincent Bagnoud	Optical Parametric Chirped-Pulse Amplifier as the Front End for the OMEGA EP Laser Chain
WPo4.54	Wei Xiaofeng	100TW，Ultra-high Peak Power Ti:Sapphire Laser Facilities
WPo4.55	Wei Xiaofeng	100TW，Ultra-high Peak Power Ti:Sapphire Laser Facilities
WPo4.56	Jaroslav Kuba	Analytical & numerical ray tracing of x-ray lasers
WPo4.57	Yurii Stoliarov	The focusing lens for creating a laser plasma bar
WPo4.58	George Miley	On a phonon-driven solid-state X-ray Laser

Poster Session E – Portola Room
Friday September 12, 2003
Topics: EOS and Condensed Matter Physics; Ignition and High Gain Pellet Design; Implosion Hydrodynamics and Hydro-Instabilities; Laser and Beam Plasma Interactions; Other Applications

Sched #	Name	Title
FPo5.1	D. Braun	Comparison of Direct and Indirect Drive Options for High Pressure Equation of State Experiments on the NIF
FPo5.2	D. Hicks	Shock-Driven Transformation of Wide Band Gap Materials into Reflecting Liquids: The Minimum Electron Relaxation Time for Conduction in Warm Dense Matter
FPo5.3	G. Collins	Using Lasers to Recreate Core States of Extrasolar and Solar Giant Planets
FPo5.4	J. Eggert	Hydrodynamic simulations with equilibrium multiphase equations of state
FPo5.5	K. Budil	Laser-based experiments investigating the dynamics of material failure
FPo5.6	Marina Bastea	Pressure Driven Polymorphic Phase Transitions and Refreeze in Bismuth
FPo5.7	T. Kato (for More)	USP Laser Interaction with Warm Condensed Matter
FPo5.8	R. Smith	Janus ICE experiments, preliminary results and future plans on Janus upgrade
FPo5.9	S. Moon	Design of isentropically compressed equation of state measurements on large laser facilities
FPo5.10	Vladimir Fortov	Compression of Deuterium at Megabar Pressures by High Explosive-driven Shock Waves
FPo5.11	JOSE Martinez-Val	An assessment of proton-boron 11th fusion in ICF targets triggered by DT sparks
FPo5.12	Maxim Chizhkov	The 1D-simulation results of indirect-driven target optimization for ignition at «Iskra-6» facility.
FPo5.13	Michael Marinak	Improved drive symmetry via integrated 3D simulations of NIF ignition targets
FPo5.14	Ogden Jones	Optimization of NIF ignition targets with varying capsule absorbed energy and hohlraum case-to-capsule ratio
FPo5.15	Pedro Velarde	Target ignition driven by jet interaction
FPo5.16	Robert Tipton	Optimized Double-Shell Ignition Designs for Various Pusher Materials
FPo5.17	Stephen Pollaine	Asymmetry sensitivity of proposed NIF ICF capsules
FPo5.18	Timothy Collins	High-Gain, Direct-Drive Foam Target Designs for the National Ignition Facility
FPo5.19	Vladislav Rozanov	Laser greenhouse target compression and burning under two beams irradiation
FPo5.20	K. Shigemori	Reduction of Rayleigh-Taylor growth rate with multi-color laser irradiation
FPo5.21	Hideo Nagatomo	Numerical Analysis of Non-spherical Implosion for Fast Ignition Target Design
FPo5.22	Norman Delamater	Progress with Double Shell Target Implosions on OMEGA
FPo5.23	Neeraj Jain	Kink Like Instability in Electron-magnetohydrodynamics
FPo5.24	Naofumi Ohnishi	Computational study on direct-drive implosion of radiatively ablated target

Sched #	Name	Title
FPo5.25	Nikolai Zmitrenko	Evolutionary model of the hydrodynamic instability development and the turbulence
FPo5.26	Pierre-Andre Holstein	Hydrodynamic instabilities in a LMJ-driven implosion
FPo5.27	Patricia Seytor	Growth of the RT instability in laser ablated polyimide foils
FPo5.28	Roman Stepanov	Study into the hydrodynamic instabilities with the help of neuron nets used in the analysis of calculation results for Rayliegh-Taylor instabilities
FPo5.29	Robert Turner	HIgh (100x) magnification x-ray core imaging and fusion yields from moderate convergence implosions on Omega
FPo5.30	Stefano Atzeni	High Resolution Numerical Study of the Deceleration-phase Rayleigh-Taylor Instability of Igniting and Non-Igniting Targets
FPo5.31	Serge Bouquet	Linear Stability of the Rayleigh-Taylor Instability in a Compressible Magnetized Fluid
FPo5.33	Frederick Osman	Suppression of Instabilities and Stochastic Pulsation at Laser Plasma Interaction by Beam Smoothing
FPo5.34	Frank Tsung	Particle-in-cell Simulations of the Two Plasmon Decay Instability in 2D and 3D
FPo5.35	Gilles Riazuelo	Influence of Optical Smoothing and Filamentation on Stimulated Raman Scattering
FPo5.36	Hyun-Kyung Chung	Population Kinetics Modeling for Non-LTE/Non-Maxwellian Plasmas Generated in Finite Temperature Dense Matter Experimetns Arising from Short Pulse X-Ray Sources
FPo5.37	Heinrich Hora	PW-ps Laser Pulses Producing Nonlinear Force Driven Plasma Blocks for X-Ray Laser Amplification
FPo5.38	Hong Jin Kong	Laser fusion driver using a beam combination technique with phase locked stimulated Brillouin scattering phase conjugation mirrors
FPo5.39	Ivan Lebo	Simulation of high intensity laser-plasma interaction by use 2D Lagrangian code ATLANT-HE;
FPo5.40	Kevin Fournier	Efficient multi-keV x-ray sources from Ti doped aerogel targets
FPo5.41	Kevin Lewis	Propagation and filamentation of a single hot spot in a laser-produced plasma
FPo5.42	Kazuhito Yasuike	Spectra of hot electrons from ultra-intense laser produced plasma as a function of laser and plasma profiles
FPo5.43	Li Xiang-dong	Ultra-High Magnetic Field Diagnostic with Spectral Profile Calculation
FPo5.44	Markus Roth	Research Using Intense Ion and Laser Beams at GSI
FPo5.45	Mark Tillack	Magnetic Confinement of an Expanding Laser-Produced Plasma
FPo5.46	Nathan Meezan	2(omega) Laser Propagation through and Interaction with Underdense Plasmas of Differing Compositions
FPo5.47	Richard Town	Calculations of Proton Radiography of Magnetic Fields in Hohlraums.
FPo5.48	Sergei Gus'kov	Energy transfer process in the low density substances of a different microstructure: experimental data analysis and 2d simulations
FPo5.49	Stefan Weber	A laser-plasma interaction code for inertial confinement fusion
FPo5.50	Hiroaki Nishimura	Characterization of Extreme UV Radiation in Laser-Produced Plasma for Use in Lithography

FPo5.51	Ivan Lebo	Numerical Study of laser0target experiments at Lebedev Physical Institute
FPo5.52	Jiri Limpouch	Laser energy transformation into ultrashort K-a pulses in layered targets
FPo5.53	J. Linhart	Orion revisited
FPo5.54	Kitae Lee	Relativistic Nonlinear Thomson scattering: As attosecond x-ray source
FPo5.55	Kitae Lee	Relativistic Nonlinear Thomson scattering: Harmonic structures in space and time
FPo5.56	Kirk Madison	Fusion yield scaling and the role of laser pulse duration in exploding cluster plasmas
FPo5.57	Vladimir Vysotskii	The Analysis of Anomalous Isotopes Synthesized by Electronic-Nuclear Collapse and the Model of Birth and Evolution of Stable Superheavy Nuclei
FPo5.58	Yuri Zakharov	Laboratory simulation of ICF-energy and plasma momentum conversions in a Laser Fusion Rocket with dipole-like magnetic field